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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/009,126	11/07/2001	Bertrand Des Clers	9997.37USWO	5551
23552 7	590 09/26/2003			
MERCHANT & GOULD PC			EXAMINER	
P.O. BOX 290 MINNEAPOL	3 IS, MN 55402-0903		NGUYEN,	HUNG T
			ART UNIT	PAPER NUMBER
			2636	<u> </u>
			DATE MAILED: 09/26/2003	8

Please find below and/or attached an Office communication concerning this application or proceeding.

Cu

Application No.

Applicant(s)

Office Action Summary Example 1

10/009,126 Examiner

HUNG NGUYEN

Art Unit

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Des Clers Bertrand



-	The MAILING DATE of this communication appears	on the cover sheet with the correspondence address			
	for Reply				
THE N - Extensi	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.				
- If NO p - Failure - Any rep	period for reply specified above is less than thirty (30) days, a reply within the period for reply is specified above, the maximum statutory period will apply a to reply within the set or extended period for reply will, by statute, cause the ply received by the Office later than three months after the mailing date of the patent term adjustment. See 37 CFR 1.704(b).	and will expire SIX (6) MONTHS from the mailing date of this communication. the application to become ABANDONED (35 U.S.C. § 133).			
Status					
1) 💢	Responsive to communication(s) filed on Nov 7, 20	001			
2a) 🗌	This action is FINAL . 2b) 💢 This act	tion is non-final.			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.					
Disposit	tion of Claims				
4) 💢	Claim(s) <u>1-15</u>	is/are pending in the application.			
4	a) Of the above, claim(s)	is/are withdrawn from consideration.			
	Claim(s)				
_	Claim(s) <u>1-15</u>				
	Claim(s)				
		are subject to restriction and/or election requirement.			
	tion Papers				
9) 🗀	The specification is objected to by the Examiner.				
10)	The drawing(s) filed on is/are	e a) \square accepted or b) \square objected to by the Examiner.			
	Applicant may not request that any objection to the d	drawing(s) be held in abeyance. See 37 CFR 1.85(a).			
11)	The proposed drawing correction filed on	is: a)□ approved b)□ disapproved by the Examiner.			
	If approved, corrected drawings are required in reply t	to this Office action.			
12)	The oath or declaration is objected to by the Exami	iner.			
Priority under 35 U.S.C. §§ 119 and 120					
	13) 💢 Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).				
a) ☑ All b) □ Some* c) □ None of:					
•	1. X Certified copies of the priority documents hav	/e been received.			
	2. \square Certified copies of the priority documents hav				
	application from the International Bure				
	ee the attached detailed Office action for a list of the				
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e). a) The translation of the foreign language provisional application has been received.					
a) Lightharpoonup The translation of the foreign language provisional application has been received. 15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s)					
_	tice of References Cited (PTO-892)	4) Interview Summary (PTO-413) Paper No(s).			
	2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152)				
3) X Information Disclosure Statement(s) (PTO-1449) Paper No(s). 3 & 7 6) Cher:					

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 2. Claims 1-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. Regarding Claim 1 recites the limitation "the risk" in lines 1-2. There is insufficient antecedent basis for this limitation in the claim.

Claim 1 recites the limitation "the group" in line 4. There is insufficient antecedent basis for this limitation in the claim.

Claim 1 recites the limitation "the temperature" in lines 7-8. There is insufficient antecedent basis for this limitation in the claim.

Claim 1 recites the limitation "the mixture" in line 8. There is insufficient antecedent basis for this limitation in the claim.

Regarding claim 1, line 11, delete "determining" after "determined by";

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Regarding claim 6 recites the limitation "the implementation" in line 1. There is insufficient

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antecedent basis for this limitation in the claim.

Regarding claim 7 recites the limitation "the risk" in line 1. There is insufficient antecedent basis

for this limitation in the claim.

Claim 7 recites the limitation "the group" in line 2. There is insufficient antecedent basis for this

limitation in the claim.

Claim 7 recites the limitation "the induction time" in line 6. There is insufficient antecedent

basis for this limitation in the claim.

Claim 7 recites the limitation "the initial temperature" in line 7. There is insufficient antecedent

basis for this limitation in the claim.

Regarding claim 9 recites the limitation "the surface" in line 2. There is insufficient antecedent

basis for this limitation in the claim.

Regarding claim 15, line 4, delete "(ti)" before "of spontaneous ignition";

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Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Webber et al. (WO 98/18001) in view of Uto et al. (U.S. 5,886,625).

Regarding claims 1 & 15, Webber discloses a process for preventing a risk of spontaneous ignition / spark plugs used for internal combustion engines and/ or explosion of an explosive atmosphere stored in a confined environment / chamber (12) chosen from a group incorporated in a vehicle, in which a temperature of a mixture and any change over time are measured by a sensor (15) for detecting any risk from the atmosphere spontaneously igniting and or exploding / the invention is carried out by measuring pressure and temperatures of gas in a vary of time [figs.1-3, 5-7, col.9, lines 1-10, col.10, lines 15-38, col.14, lines 11-19, col.16, line 5-22, col.25, line 23 to col.26, line 9 and abstract].

Webber does not specifically mention a fuel tank optionally incorporated in a vehicle.

of the atmosphere of the fuel tank in the vehicle.

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Uto describes a process for preventing a risk of spontaneous ignition in which a temperature is measured in a sample holding container as a fuel tank (9) in a vehicle and in which the critical moment is determined both on the basic of a time which has elapsed and comparing the measured temperature with the critical temperature [figs.1-7, col.2, line 57 to col.4, line 60]. Therefore, it would have been obvious to one having ordinary skill in the art to employ the teaching of Uto in the system of Webber for providing / identifying accurate the timing source of the danger signals to a user as to prevent spontaneous ignition and / or explosion

Regarding claim 2, Both Webber & Uto disclose the chemical material is a petroleum spirit as natural gas, fuel is used in the vehicle engine [col.25, lines 8-40 and abstract].

However, those skilled in the art will recognize that chemical materials can be realize in several ways may include chemical fertilizers or ammonium nitrates or other fields such as coal dust, animal, plant meals and so on.

Regarding claims 3-4, Both Webber & Uto disclose the chemical material is a petroleum spirit as natural gas, fuel is used in the vehicle engine [col.3, lines 7-15 & col.25, lines 8-40 and abstract].

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Regarding claims 5-6, Webber discloses the process for preventing a risk of spontaneous ignition / spark plugs used for internal combustion engines and/ or explosion of an explosive atmosphere stored in a confined environment / chamber (12) chosen from a group incorporated in a vehicle, in which a temperature of a mixture and any change over time are measured by a sensor (15) for detecting any risk from the atmosphere spontaneously igniting and or exploding / the invention is carried out by measuring pressure and temperatures of gas in a vary of time without a human intervention [figs.1-3, 5-7, col.1, lines 24-36, col.10, lines 15-38, col.14, lines 11-19, col.16, line 5-22, col.25, line 23 to col.26, line 9 and abstract].

Regarding claims 7-8, Webber discloses the process for preventing a risk of spontaneous ignition / spark plugs used for internal combustion engines and/ or explosion of an explosive atmosphere stored in a confined environment / chamber (12) chosen from a group incorporated in a vehicle, in which a temperature of a mixture and any change over time are measured by a sensor (15) for detecting any risk from the atmosphere spontaneously igniting and or exploding / the invention is carried out by measuring pressure and temperatures of gas in a vary of time [figs.1-3, 5-7, col.9, lines 1-10, col.10, lines 15-38, col.14, lines 11-19, col.16, line 5-22, col.25, line 23 to col.26, line 9 and abstract].

Webber does not specifically mention a fuel tank optionally incorporated in a vehicle.

Uto describes a process for preventing a risk of spontaneous ignition in which a temperature is measured in a sample holding container as a fuel tank (9) in a vehicle and in

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which the critical moment is determined both on the basic of a time which has elapsed and comparing the measured temperature with the critical temperature [figs.1-7, col.2, line 57 to col.4, line 60]. Therefore, it would have been obvious to one having ordinary skill in the art to employ the teaching of Uto in the system of Webber for providing / identifying accurate the timing source of the danger signals to a user as to prevent spontaneous ignition and / or explosion of the atmosphere of the fuel tank in the vehicle.

Regarding claims 9-10, Both Webber & Uto disclose the atmosphere comprises the chemical material is a petroleum spirit as natural gas, fuel is used in the vehicle engine is contact with oxygen or air [col.3, lines 7-15 & col.25, lines 8-40 and abstract].

Regarding claim 11, Both Webber & Uto disclose the atmosphere comprises the chemical material is a petroleum spirit as natural gas, fuel is used in the vehicle engine is in contact with a surface of semiconfine bulk storage [col.3, lines 7-15 & col.25, lines 8-40 and abstract].

Regarding claim 12, Both Webber & Uto disclose the chemical material is a petroleum spirit as natural gas, fuel is used in the vehicle engine [col.25, lines 8-40 and abstract].

However, those skilled in the art will recognize that chemical materials can be realize in several ways may include chemical fertilizers or ammonium nitrates or other fields such as coal dust, animal, plant meals and so on.

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Regarding claim 13, Uto discloses the fuel tank in the vehicle must contain gas, fuel is used in the vehicle engine [col.1, lines 7-10 and abstract].

Regarding claim 14, Both Webber & Uto disclose the chemical material is a petroleum spirit as natural gas, fuel is used in the vehicle engine [col.25, lines 8-40 and abstract].

However, those skilled in the art will recognize that chemical materials can be realize in several ways may include a fuel tank is used in aircraft, boat or mechanical engines.

Conclusion

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- Silber et al. (U.S. 5,159,839) Apparatus for gauging high pressure gas, in particular the supply of oxygen gas on board an aircraft.
- Hale et al. (U.S. 5,255,553) Method and apparatus for determining specific thermal conductivity parameters of gases.
 - Patel (U.S. 5,904,190) Method to prevent explosion in fuel tank.

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung T. Nguyen whose telephone number is (703) 308-6796. The examiner can normally be reached on Monday to Friday from 8:00am to 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hofsass, Jeffery can be reached on (703) 305-4717. The fax phone number for this Group is (703) 872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-4700.

Examiner: Hung T. Nguyen

Date:

Sept. 17, 2003

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